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United States General Accounting Office  
Washington, DC 20548

October 20, 2000

The Honorable Fred Thompson  
Chairman, Committee on Governmental Affairs  
United States Senate

Subject: Internet Privacy: Federal Agency Use of Cookies

Dear Mr. Chairman:

As requested by your office, we have been reviewing selected federal agencies' use of cookies on their web sites. A cookie is a short string of text—not a program—that is sent from a web server to a web browser when the browser accesses a web page. The use of cookies allows the server to recognize returning users, track on-line purchases, or maintain and serve customized web pages. Domain cookies are cookies placed by the visited web site. However, some web sites also allow the placement of third-party cookies—cookies placed on a visitor's computer by a domain other than the site being visited. The domain and third-party cookies may be further grouped into session cookies and persistent cookies. Session cookies are short-lived, are used only during the browsing session, and expire when the user quits the browser. Persistent cookies specify expiration dates, remain stored on the client's computer until the expiration date, and can be used to track users' browsing behavior by identifying their Internet addresses whenever they return to a site.

The purpose of this letter is to respond to your request for interim information on federal agency use of cookies as of September and October 2000. Specifically, you asked us to identify agency web sites that used cookies but did not disclose this use in their privacy policies and to identify the type of cookie used. In addition, you asked us to identify agency web sites that use persistent cookies. Enclosure I provides this information.

We reviewed 65 web sites. This total consisted of (1) the web sites operated by the 32 high-impact agencies, which handle the majority of the government's contact with the public; (2) 32 web sites randomly selected from the General Services Administration's government domain registry data base; and (3) the Federal Trade Commission's web site. See enclosure II for a list of the sites we reviewed. We reviewed certain web sites twice. During our August through September 2000 review, we visited all 65 web sites to determine (1) which of the selected federal sites were using cookies, (2) the type of cookies used, and (3) whether the privacy policy disclosed that the site may or does use cookies. We again reviewed sites that used cookies on October 17, 2000. We conducted our review from August through October 2000 in accordance with generally accepted government auditing standards.

**DTIC QUALITY INSPECTED 4**

GAO-01-147R Federal Agency Use of Cookies

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On October 18, 2000, we requested comments on a draft of this letter from the Office of Management and Budget. In a letter dated October 19, 2000, OMB's Deputy Director for Management said that OMB appreciates the helpful information provided and plans to contact these agencies to reinforce administration policy. She also noted that OMB has required agencies to report directly to OMB in this year's budget requests about the steps they have taken to comply with administration policy concerning privacy, cookies, and federal web sites. OMB's letter is reprinted in enclosure III.

As agreed with your office, unless you publicly announce the contents of this letter earlier, we will not distribute it until 30 days from its date. At that time, we will send copies of this letter to the Honorable Joseph I. Lieberman, Ranking Minority Member, Senate Committee on Governmental Affairs; and the Honorable Dan Burton, Chairman, and the Honorable Henry A. Waxman, Ranking Minority Member, House Committee on Government Reform. We are also providing a copy of this letter to the Honorable Jacob J. Lew, Director, Office of Management and Budget. We will also provide copies to interested parties upon request.

Please contact me at (202) 512-6240 if you or your staff have any questions. I can also be reached by e-mail at [koontzl@gao.gov](mailto:koontzl@gao.gov). Key contributors to this report were Scott A. Binder, Mirko J. Dolak, and M. Yvonne Sanchez.

Sincerely yours,



Linda D. Koontz  
Director, Information Management Issues

Enclosures

## COOKIES ON SELECTED FEDERAL WEB SITES

Table 1: Federal Web Sites Giving Domain Cookies Without Disclosure

Web Site	Web Address	Session Cookie	Persistent Cookie	Found in Sept. 2000	Found in Oct. 2000
Office of Personnel Management	<a href="http://www.opm.gov/demos/index.htm">http://www.opm.gov/demos/index.htm</a>		✓	♦	♦
	<a href="http://www.opm.gov">http://www.opm.gov</a>	✓		♦	
U.S. Trade and Development Agency	<a href="http://www.tda.gov/forms/guestbook.cfm">http://www.tda.gov/forms/guestbook.cfm</a>		✓	♦	♦
Bureau of Land Management	<a href="http://www.blm.gov">http://www.blm.gov</a>	✓		♦	
Federal Aviation Administration	<a href="http://jobs.faa.gov/forms.asp">http://jobs.faa.gov/forms.asp</a>	✓		♦	♦
Ames Laboratory	<a href="http://www.ameslab.gov/overview/glance.html">http://www.ameslab.gov/overview/glance.html</a>		✓	♦	♦
Bureau of Labor Statistics	<a href="http://www.bls.gov/search/search.asp">http://www.bls.gov/search/search.asp</a>	✓			♦
	<a href="http://www.bls.gov">http://www.bls.gov</a>		✓	♦	
Health Care Financing Administration	<a href="http://www.hcfa.gov/search/">http://www.hcfa.gov/search/</a>	✓		♦	♦
National Park Service	<a href="http://reservations.nps.gov/">http://reservations.nps.gov/</a>	✓		♦	♦
Central Federal Lands Highway Division	<a href="http://www.cflhd.gov">http://www.cflhd.gov</a>	✓		♦	♦

Table 2: Federal Web Sites Giving Third-party Cookies Without Disclosure

Web Site	Web Address	Session Cookie	Persistent Cookie	Found in Sept. 2000	Found in Oct. 2000
U. S. Customs Service	<a href="http://www.customs.gov">http://www.customs.gov</a>		✓	♦	
Federal Emergency Management Agency	<a href="http://www.fema.gov/media/index.htm">http://www.fema.gov/media/index.htm</a>		✓	♦	♦
U.S. Forest Service	<a href="http://www.fs.fed.us/global/">http://www.fs.fed.us/global/</a>	✓		♦	♦
	<a href="http://www.fs.fed.us/reinvention/enterprise">http://www.fs.fed.us/reinvention/enterprise</a>		✓	♦	♦

ENCLOSURE I

ENCLOSURE I

Table 3: Federal Web Sites Giving Persistent Domain Cookies With Disclosure

Web Site	Web Address	Session Cookie	Persistent Cookie	Found in Sept. 2000	Found in Oct. 2000
U.S. Postal Service	<a href="http://new.usps.com/cgi-bin/uspsbv/scripts/front.jsp">http://new.usps.com/cgi-bin/uspsbv/scripts/front.jsp</a>		✓	♦	♦
General Service Administration	<a href="http://pub.fss.gsa.gov/fm/current">http://pub.fss.gsa.gov/fm/current</a>		✓	♦	♦
Small Business Administration	<a href="http://app1.sba.gov/buscard/">http://app1.sba.gov/buscard/</a>		✓	♦	♦
Institute of Museum and Library Services	<a href="http://www.ims.gov/utility/contact.htm">http://www.ims.gov/utility/contact.htm</a> when clicking on "About IMLS"		✓	♦	♦

## LIST OF FEDERAL WEB SITES REVIEWED

Agency/Department	Web Site Address	Group
<b>Department of Agriculture</b>		
Animal and Plant Health Inspection Service	www.aphis.usda.gov	High-Impact Agency
Food Safety and Inspection Service	www.fsis.usda.gov	High-Impact Agency
Food, Nutrition, and Consumer Service	www.fns.usda.gov	High-Impact Agency
National Agricultural Library	www.nalusda.gov	Random Sample
National Genetic Resources Program	www.ars-grin.gov	Random Sample
USDA Forest Service	www.fs.fed.us	High-Impact Agency
<b>Department of Commerce</b>		
FedWorld	www.fedworld.gov	Random Sample
National Weather Service	www.nws.noaa.gov	High-Impact Agency
The Official U.S. Time	www.time.gov	Random Sample
U.S. Census Bureau	www.census.gov	High-Impact Agency
U.S. Commercial Service	www.usatrade.gov	High-Impact Agency
U.S. Patent and Trademark Office	www.uspto.gov	High-Impact Agency
<b>Department of Defense</b>		
ACQWeb	www.acq.osd.mil	High-Impact Agency
<b>Department of Education</b>		
Office of Student Financial Assistance Programs	www.ed.gov/offices/OSFAP	High-Impact Agency
<b>Department of Energy</b>		
Albuquerque Operations Office	www.doeal.gov	Random Sample
Ames Laboratory	www.ameslab.gov	Random Sample
Fernald Environmental Management Project	www.fernald.gov	Random Sample
Southeastern Power Administration	www.sepa.fed.us	Random Sample
<b>Department of Health and Human Services</b>		
Administration for Children and Families	www.acf.dhhs.gov	High-Impact Agency
Health Care Financing Administration	www.hcfa.gov	High-Impact Agency
IGNet	www.ignet.gov	Random Sample
National Institute of Allergy and Infectious Diseases	www.hsroad.gov	Random Sample
National Institute on Drug Abuse	www.drugabuse.gov	Random Sample
U.S. Food and Drug Administration	www.fda.gov	High-Impact Agency
<b>Department of Housing and Urban Development</b>		
Code Talk <sup>1</sup>	www.codetalk.gov	Random Sample
<b>Department of the Interior</b>		
Bureau of Land Management	www.blm.gov	High-Impact Agency
National Park Service	www.nps.gov	High-Impact Agency
<b>Department of Justice</b>		
Federal Bureau of Investigation	www.fbi.gov	Random Sample
Immigration & Naturalization Service	www.ins.usdoj.gov	High-Impact Agency
<b>Department of Labor</b>		
Bureau of Labor Statistics	www.bls.gov	Random Sample
Occupational Safety & Health Administration	www.osha.gov	High-Impact Agency

<sup>1</sup>Code Talk is an interagency site that is hosted but not owned by HUD.

<b>Department of State</b>		
Bureau of Consular Affairs	<a href="http://www.travel.state.gov">www.travel.state.gov</a>	High-Impact Agency
International Information Programs	<a href="http://www.usia.gov">www.usia.gov</a>	Random Sample
<b>Department of Transportation</b>		
Central Federal Lands Highway Division	<a href="http://www.cflhd.gov">www.cflhd.gov</a>	Random Sample
Federal Aviation Administration	<a href="http://www.faa.gov">www.faa.gov</a>	High-Impact Agency
<b>Department of the Treasury</b>		
Customs Service	<a href="http://www.customs.gov">www.customs.gov</a>	High-Impact Agency
Financial Management Service	<a href="http://www.fms.treas.gov">www.fms.treas.gov</a>	High-Impact Agency
Internal Revenue Service	<a href="http://www.irs.ustreas.gov">www.irs.ustreas.gov</a>	High-Impact Agency
<b>Department of Veterans Affairs</b>		
Veterans Benefits Administration	<a href="http://www.vba.va.gov">www.vba.va.gov</a>	High-Impact Agency
Veterans Health Administration	<a href="http://www.va.gov/About_VA/Orgs/VHA/index.htm">www.va.gov/About_VA/Orgs/VHA/index.htm</a>	High-Impact Agency
<b>Independent Agencies</b>		
African Development Foundation	<a href="http://www.adf.gov">www.adf.gov</a>	Random Sample
Environmental Protection Agency	<a href="http://www.epa.gov">www.epa.gov</a>	High-Impact Agency
Farm Credit Administration	<a href="http://www.fca.gov">www.fca.gov</a>	Random Sample
Farm Credit System Insurance Corporation	<a href="http://www.fcsic.gov">www.fcsic.gov</a>	Random Sample
Federal Communications Commission	<a href="http://www.fcc.gov">www.fcc.gov</a>	Random Sample
Federal Emergency Management Agency	<a href="http://www.fema.gov">www.fema.gov</a>	High-Impact Agency
Federal Retirement Thrift Investment Board	<a href="http://www.frtib.gov">www.frtib.gov</a>	Random Sample
Federal Trade Commission	<a href="http://www.ftc.gov">www.ftc.gov</a>	Special Selection
FinanceNet	<a href="http://www.financenet.gov">www.financenet.gov</a>	Random Sample
General Services Administration	<a href="http://www.gsa.gov">www.gsa.gov</a>	High-Impact Agency
Institute of Museum and Library Services	<a href="http://www.ims.fed.us">www.ims.fed.us</a>	Random Sample
National Aeronautics and Space Administration	<a href="http://www.nasa.gov">www.nasa.gov</a>	High-Impact Agency
National Credit Union Administration	<a href="http://www.ncua.gov">www.ncua.gov</a>	Random Sample
National Science Foundation CISE	<a href="http://www.cise.nsf.gov">www.cise.nsf.gov</a>	Random Sample
Occupational Safety and Health Review Commission	<a href="http://www.oshrc.gov">www.oshrc.gov</a>	Random Sample
Office of the Federal Environmental Executive	<a href="http://www.ofee.gov">www.ofee.gov</a>	Random Sample
Office of Personnel Management	<a href="http://www.opm.gov">www.opm.gov</a>	High-Impact Agency
Small Business Administration	<a href="http://www.sba.gov">www.sba.gov</a>	High-Impact Agency
Social Security Administration	<a href="http://www.ssa.gov">www.ssa.gov</a>	High-Impact Agency
The Access Board	<a href="http://www.access-board.gov">www.access-board.gov</a>	Random Sample
The White House Fellows Program	<a href="http://www.whitehousefellows.gov">www.whitehousefellows.gov</a>	Random Sample
Thrift Savings Plan	<a href="http://www.tsp.gov">www.tsp.gov</a>	Random Sample
U.S. Nuclear Regulatory Commission	<a href="http://www.nrc.gov">www.nrc.gov</a>	Random Sample
U.S. Postal Service	<a href="http://new.usps.com">new.usps.com</a>	High-Impact Agency
U.S. Trade and Development Agency	<a href="http://www.tda.gov">www.tda.gov</a>	Random Sample

ENCLOSURE III

ENCLOSURE III

COMMENTS FROM THE OFFICE OF MANAGEMENT AND BUDGET



DEPUTY DIRECTOR  
FOR MANAGEMENT

EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF MANAGEMENT AND BUDGET  
WASHINGTON, D.C. 20503

October 19, 2000

Ms. Linda Koontz  
Associate Director, Government-Wide  
and Defense Information Systems  
General Accounting Office  
Washington, DC 20548

Dear Ms. Koontz:

Thank you for providing your draft report entitled *Internet Privacy: Federal Use of Cookies* (GAO-01-147R), which I received this morning. I am pleased to present comments from the Office of Management and Budget on this report.

As you know, OMB issued guidance on June 22, 2000 (Memorandum M-00-13) concerning privacy policies and data collection on Federal web sites. There are particular privacy concerns when web technology can track the activities of users over time and across different web sites. In light of the unique laws and traditions about government access to the personal information of citizens, the Director stated that the presumption should be that cookies will not be used at Federal web sites or by contractors when operating web sites on behalf of agencies. Under this policy, cookies should not be used unless there is: clear and conspicuous notice; a compelling need to gather the data on the site; appropriate and publicly disclosed privacy safeguards for handling of information derived from cookies; and personal approval by the head of the agency.

This policy was explained in more detail in a letter on September 5, 2000 from OMB's Administrator of the Office of Information and Regulatory Affairs to the Chief Information Officer at the Department of Commerce. As you correctly differentiate in your draft report, there is an important distinction between so-called "persistent" cookies and "session" cookies. The latter, which retain information only during a single session, do not collect information in ways that raise privacy concerns. These session cookies also have important advantages for electronic government, and do not fall within the scope of Memorandum 00-13.

Concerning your report, we appreciate the useful information that you have provided about federal web sites that have not yet come into compliance with OMB policy. We will contact those agencies promptly, to reinforce Administration policy.

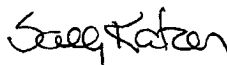
ENCLOSURE III

ENCLOSURE III

As you know, the June 22, 2000, memorandum from OMB also required agencies to report directly to OMB in this year's budget requests, as part of the submission on information technology, about the steps they have taken to comply with Administration policy concerning privacy, cookies, and federal web sites. We will receive these reports from the agencies in December, and use the data from these reports to make certain that the policy is being implemented appropriately.

Thank you once again for providing us with the draft report, which assists our continuing efforts to assure that web sites across the government are held to the highest standards of protecting citizens' privacy.

Sincerely,

A handwritten signature in cursive script that reads "Sally Katzen".

Sally Katzen

(310304)